

SWBAT: measure amplitude and wavelength

Jan 4-7:20 AM

Welcome!!!

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SECA Physics
Friday 10 April 2015

* Pick up:

- blue concept sheet
- worksheet
- slip of paper (for later)



Opening Questions:

If a drummer bounces her sticks at 10 Hz, what is the period of each bounce?

$$T = \frac{1}{f} = \frac{1}{10 \text{ Hz}} = 0.1 \text{ sec}$$

If a light blinks once every 10 seconds, what is the frequency of the blinks?

$$f = \frac{1}{T} = \frac{1}{10 \text{ s}} = 0.1 \text{ Hz}$$

Centering

Sep 7-7:04 AM

OAS - Wave pool

Apr 10-9:06 AM

Concept Sheet

~ 7 rows when we're done...

We'll fill in two terms (rows) today.


Concept	Meaning	Sym-bol	Units	Picture
FREQUENCY	HOW MANY PER UNIT OF TIME FREQ = $\frac{\#}{\text{TIME}}$	f $f = \frac{1}{T}$	hertz Hz = $\frac{1}{\text{sec}}$	
PERIOD	HOW MUCH TIME FOR ONE. PERIOD = $\frac{\text{TIME}}{\#}$	T $T = \frac{1}{f}$	Seconds sec.	
TRANSVERSE	WHEN THE MEDIUM VIBRATES ACROSS THE DIRECTION THE WAVE TRAVELS.			
LONGITUDINAL	WHEN THE MEDIUM VIBRATES ALONG THE DIRECTION THE WAVE TRAVELS.			
AMPLITUDE	HOW FAR FROM THE MIDDLE.	A	meters m	
WAVELENGTH	HOW FAR FOR ONE 'BACK & FORTH'	λ	meters m	

Feb 18-6:50 AM

Experiments:

Half in here, half working in the hallway.

We'll switch after ~10 minutes

 http://www.youtube.com/watch?v=P-Umre5Np_0

 <http://www.ngsir.netfirms.com/englishhtm/SpringSHM.htm>

(didn't work)

Apr 12-7:13 AM

What did we find?

- BIG OR LITTLE
AMPLITUDE
~ SAME TIME

- MORE STRETCH
⇒ FASTER TIME

Apr 15-6:36 AM

Daily 3 Questions

CP: No homework

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) AMPLITUDE ^{FAR} means how wide from the middle.

2) The units for measuring wavelength are

A) seconds

B) Hertz

C) meters

3) What does the symbol λ stand for?

WAVELENGTH

Apr 12-7:15 AM